

Serviceanweisung

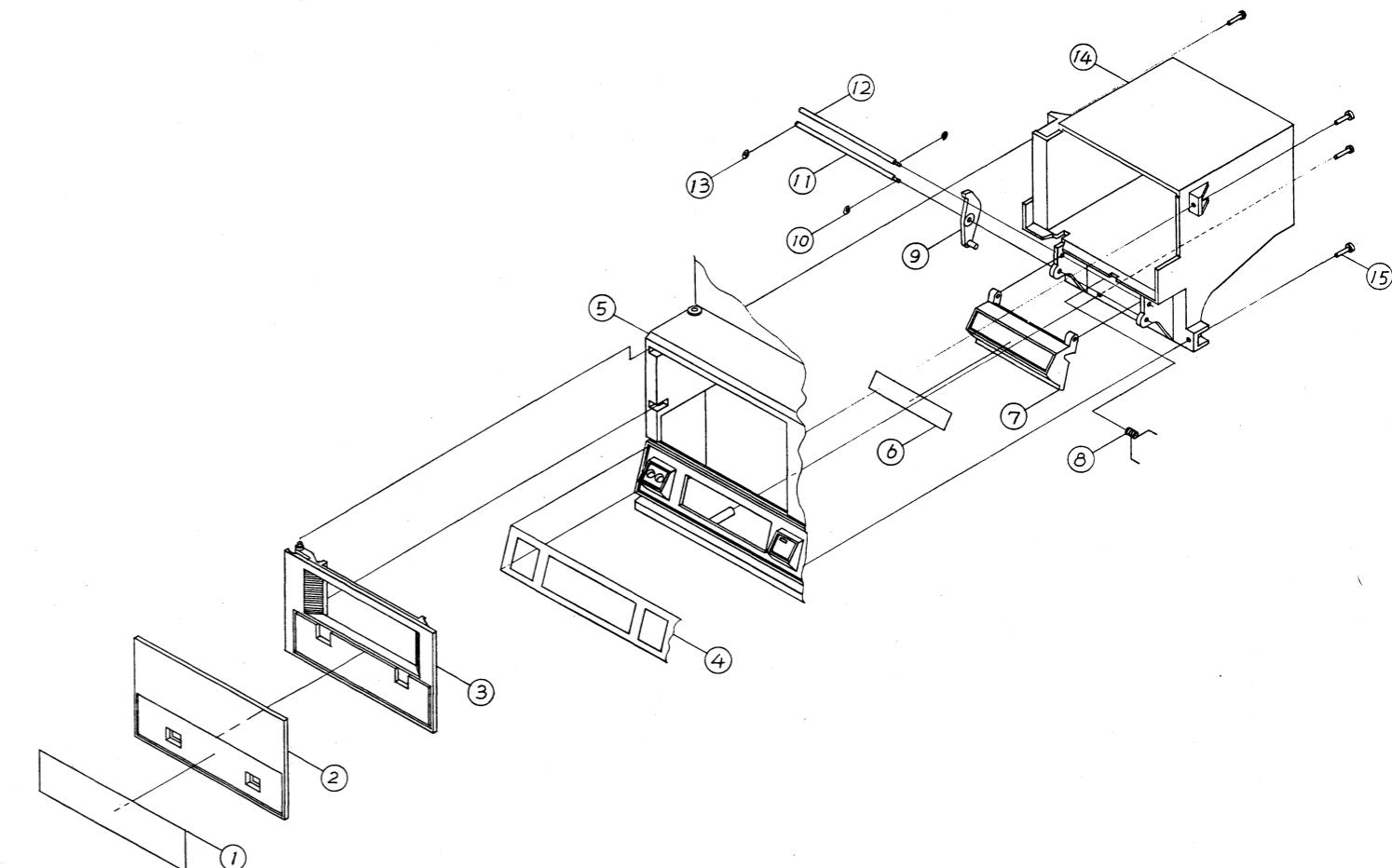
Service manual

VAL 1000/VAL 1002

S3 4

Explosionsdarstellung Cassettenaufbewahrungsfach

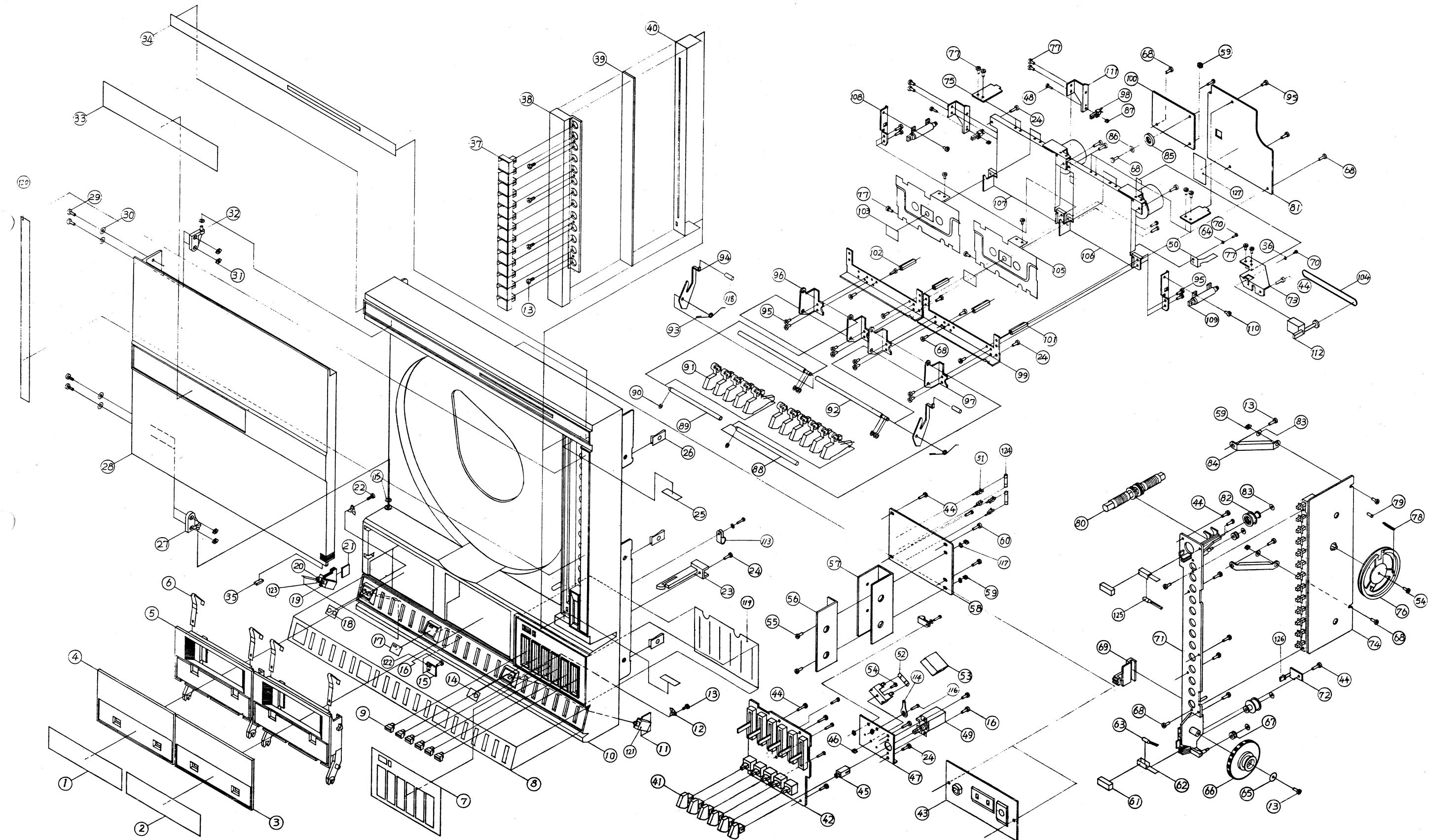
Exploded view cassette storage



Bestell-Nr./Part No.	Bezeichnung	Description	Pos.-Nr./Ref. No.
29 010 00-4295	Cassettenaufbew.-Fachabdeckung	Cass. compartment door window	2
29 011 00-4312	Cassettenaufbew.-Fachdeckel	Cass. compartment door	3
29 012 00-5903	Frontblende VAL 1000	Escutcheon	5
29 013 00-4282	Knopf Cassettenaufbew.-Fach	Compartment door open knob	7
29 014 00-416	Feder Cassettenaufbew.-Fach	Compartment door open knob spring	8
29 015 00-4299	Hebel Fachöffner	Compartment door lever	9
29 016 00-4299	Cassettenaufbew.-Fach	Cass. storage compartment	14

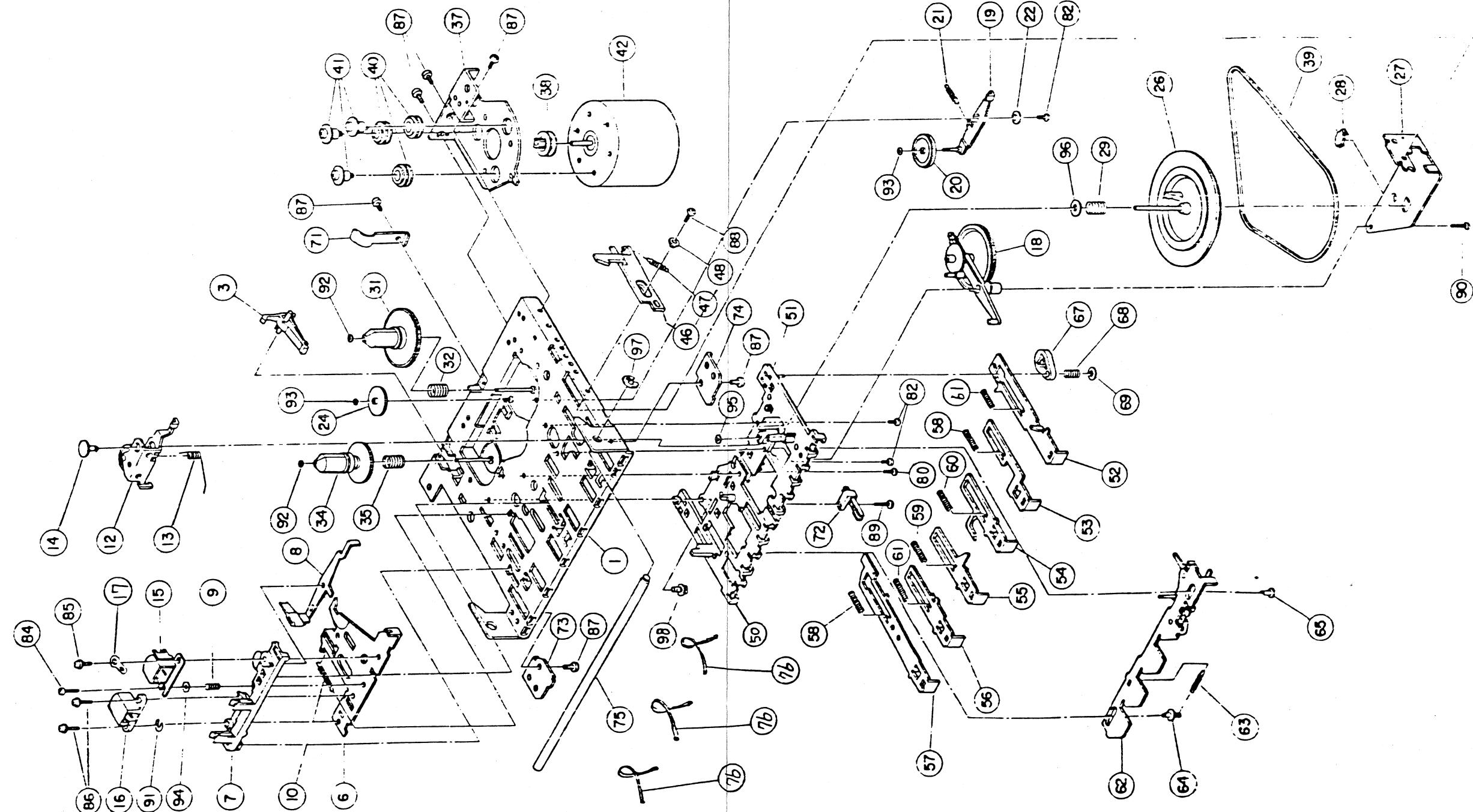
Explosionsdarstellung

Exploded view



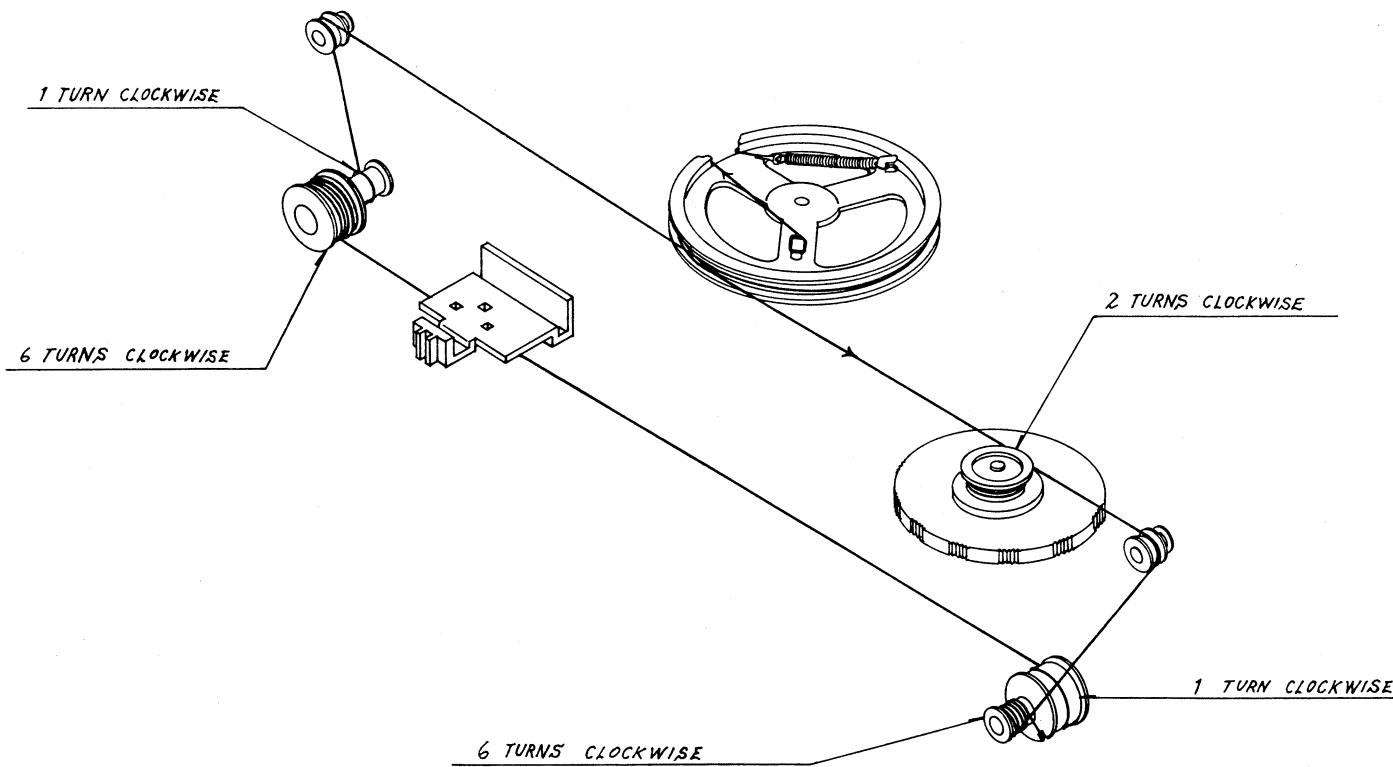
Explosionsdarstellung Cassette

Exploded view cassette



Seilführung

Stringing diagram

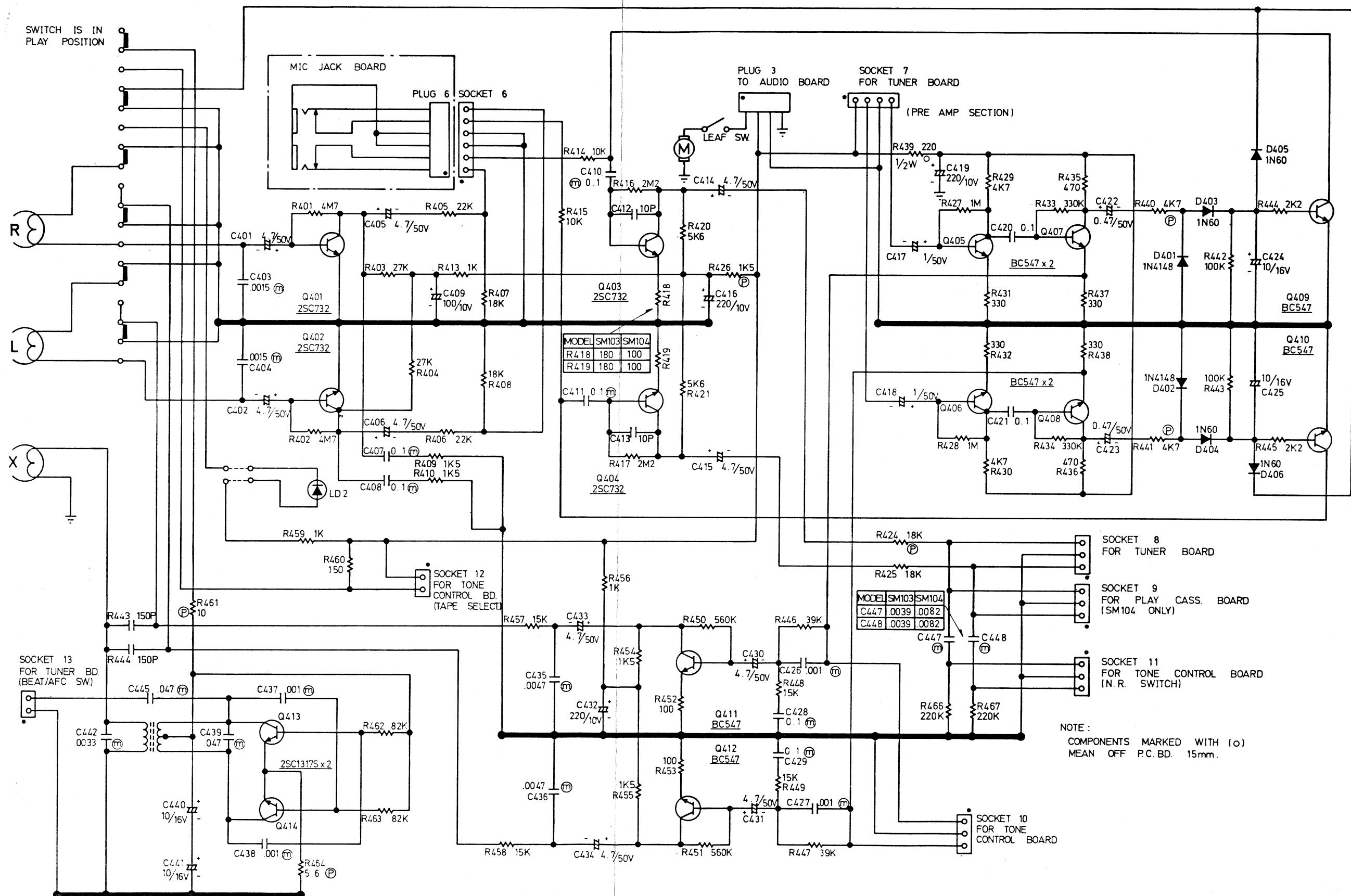


Bestell-Nr./Part No.	Bezeichnung	Description	Pos.-Nr./Ref. No.
26 039 00-4295	Cassettenfachabdeckung TAPE 1	Cass. door window TAPE 1 (VAL 1002)	3
26 784 00-4295	Cassettenfachabdeckung VAL 1000	Cass. door window (VAL 1000)	3
29 044 00-4295	Cassettenfachabdeckung TAPE 2	Cass. door window TAPE 2 (VAL 1002)	4
26 785 00-4312	Cassettenfachdeckel	Cass. door	5
26 786 00-4164	Blattfeder	Door spring plate	6
26 787 00-4284	Knopf Schieberegler	Slide control knob	9
29 045 00-5903	Frontblende VAL 1002	Escutcheon	10
26 972 00-4294	Halter Abdeckhaube	Dust cover holder	23
26 973 00-445	Haubenscharnier unten	Dust cover lower hinge	27
26 974 00-422	Abdeckhaube	Dust cover	28
26 975 00-445	Haubenscharnier oben	Dust cover upper hinge	32
26 792 00-4282	Knopf Funktionstaste	Function knob	37
26 976 00-4251	Skalenabdeckung	Dial lens	38
26 977 00-4251	Skalenscheibe FM	Dial scale lens	39
26 978 00-4251	Skalenscheibe MW/LW	Dial inlay	40
26 979 00-4282	Knopf Taste	Push button knob	41
26 981 00-4295	Adapter Netzschalter	Power knob buffer	45
26 982 00-3273	Netzschalter	"ALPS" Power switch SDL 1 P	49
26 985 00-4281	Knopf Abstimm	Tuning knob	66
26 986 00-4273	Führungsrolle	Guide pulley	67
26 987 00-4271	Zeiger	Pointer	69
26 990 00-427	Seilrad	Dial drum	76
26 991 00-4126	Seilzugfeder	Dial spring 3 x 14 x 0.3	78
26 994 00-4273	Seilrolle	Reduction pulley	82
26 995 00-4282	Knopf Cassette	Cassette key knob	91
26 996 00-416	Feder Cassettenfach	Door spring	93
26 997 00-4295	Hebel für Dämpfer	Damping fork lever	94
26 998 00-327	Mikroschalter	Leaf switch (SM 104) play/rec deck parts	98
29 000 00-4152	Zählwerkriemen	"TANASHIN" Counter belt 52 x 0.8 MM	104
29 001 00-501	Cass.-Mechanik A/W	Cassette deck TN 33 ZFC "A" (103 only)	106
29 002 00-501	Cass.-Mechanik Wiedergabe	Cass. deck TN 33 ZFC "B" play (104-SN only)	107
29 003 00-501	Dämpfer	Damping	109
29 004 00-4272	Zählwerk	Tape counter MB-M 3-8 K-20	112

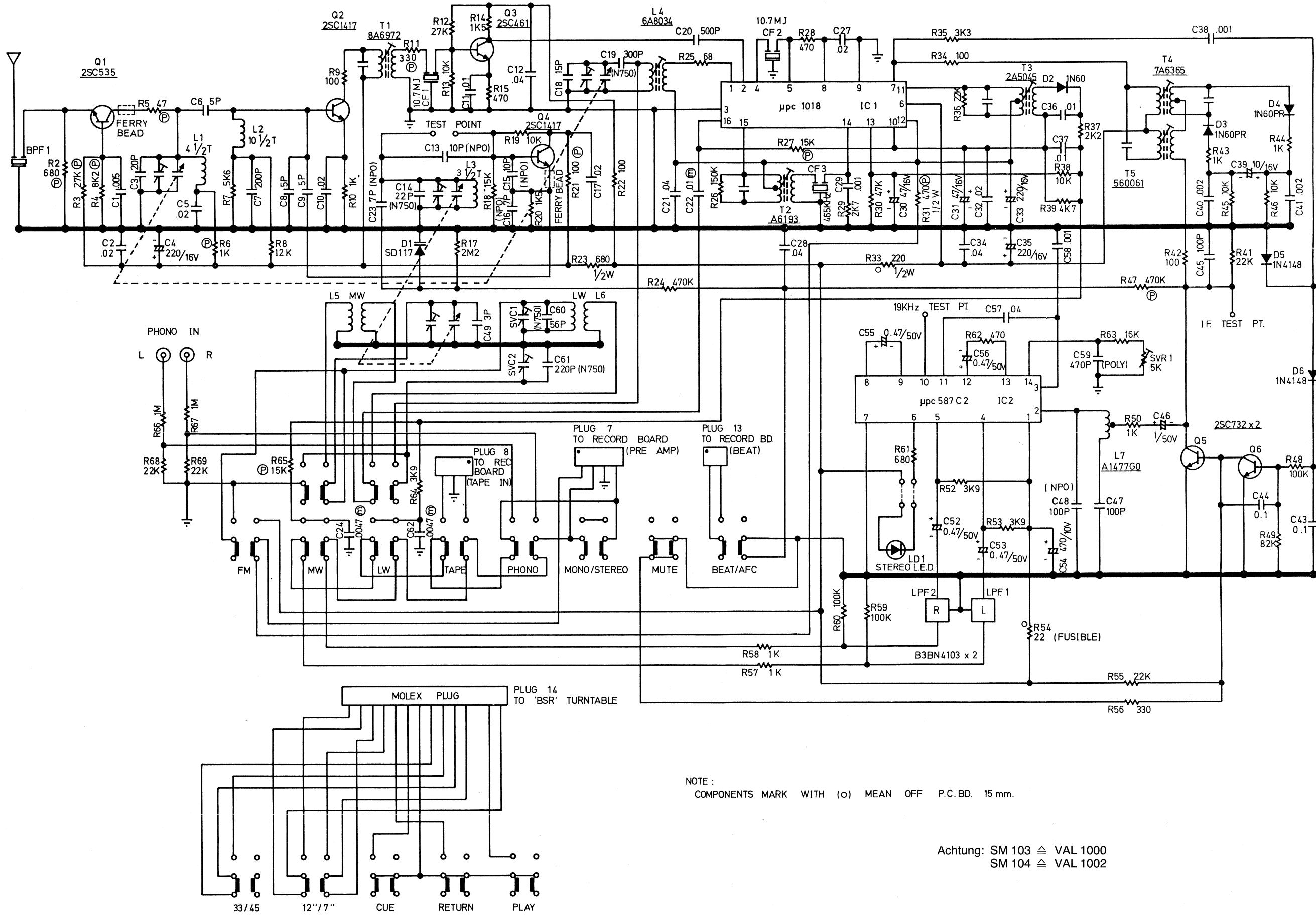
Bestell-Nr./Part No.	Bezeichnung	Description	Pos.-Nr./Ref. No.
29 001 00-501	Cassette mech. A/W	Cass. deck TN 33 ZFC	1
29 002 00-501	Cassette mech. Wiedergabe	Cass. deck TN 33 ZFC	
22 950 00-4191	Montageplatte mech.	Chassis assembly	
21 437 00-4197	Sperrhebel Aufnahme	Record safety lever	3
22 951 00-4192	Kopfrägerplatte	Headbase	7
21 438 00-4197	Abschaltfühler	Sensing plate assembly	8
21 439 00-416	Feder A/W-Kopf	Spring	9
26 881 00-416	Feder Kopfschlitten	Head panel spring	10
21 441 00-501	Bandandruckrolle kpl.	Pinch roller assembly	12
29 069 00-416	Feder BA-Rolle	Spring	13
26 885 00-429	Stopper BA-Rolle	Pinch roller arm stopper	14
29 070 00-32831	A/W-Kopf	R.P. head	15
29 071 00-32831	Löschkopf	E. head	16
21 446 00-4299	Rutschkupplung	RF-pulley arm assembly	18
29 072 00-429	Zwischenradarm	Take-up roller arm assembly	19
21 447 00-429	Zwischenrad	Take-up roller assembly	20
21 448 00-416	Feder Zwischenrad	Spring	21
21 449 00-429	Zahnrad Vorlauf	FF gear	24
21 450 00-418	Schwungmasse	Flywheel assembly	26
21 800 00-4182	Schwungmassehalter	Flywheel holder	27
21 582 00-416	Feder Schwungmasse	Flywheel plate	28
21 452 00-429	Wickelteller rechts	Spring	29
21 584 00-416	Feder Wickelteller rechts	Take-up reel assembly	31
21 585 00-429	Wickelteller links	Spring	32
21 455 00-416	Feder Wickelteller links	Supply reel assembly	34
21 587 00-418	Motorpulley	Motor pulley	35
21 588 00-4152	Antriebsriemen	Main belt	38
13 590 00-328	Antriebsmotor	Motor	39
29 076 00-429	Hebel Eject	Eject slide lever	42
29 077 00-416	Feder Hebel Eject	Spring	48
26 897 00-4197	Auslösehebel	Push button actuator assembly	62
26 898 00-416	Feder für Auslösehebel	Spring	63
21 805 00-418	Bolzen	Actuator shaft (B)	64
22 946 00-418	Fixierstift	Actuator shaft	65
21 031 00-419	Schalthobel Pause	Pause lever	67
29 073 00-416	Feder	Spring	68
21 033 00-429	Stopper Schalth. Pause	Pause lever stopper	69
21 006 00-416	Cassettenandruckfeder	Pack spring	71
21 590 00-327	Mikroschalter	Leaf switch	72
29 074 00-4163	Feder Taste	Button knob spring	76
29 075 00-407	Sicherungsscheibe Wickelt.	P washer cut	92
26 904 00-407	Sicherungsscheibe Zahnr.	P washer cut	93
26 905 00-4069	Scheibe Schwungmasse	Nylon washer	96

Schaltbild A/W-Cassettenteil

Circuit diagram rec./play-cass.-deck



Schaltbild Receiver
Circuit diagram receiver



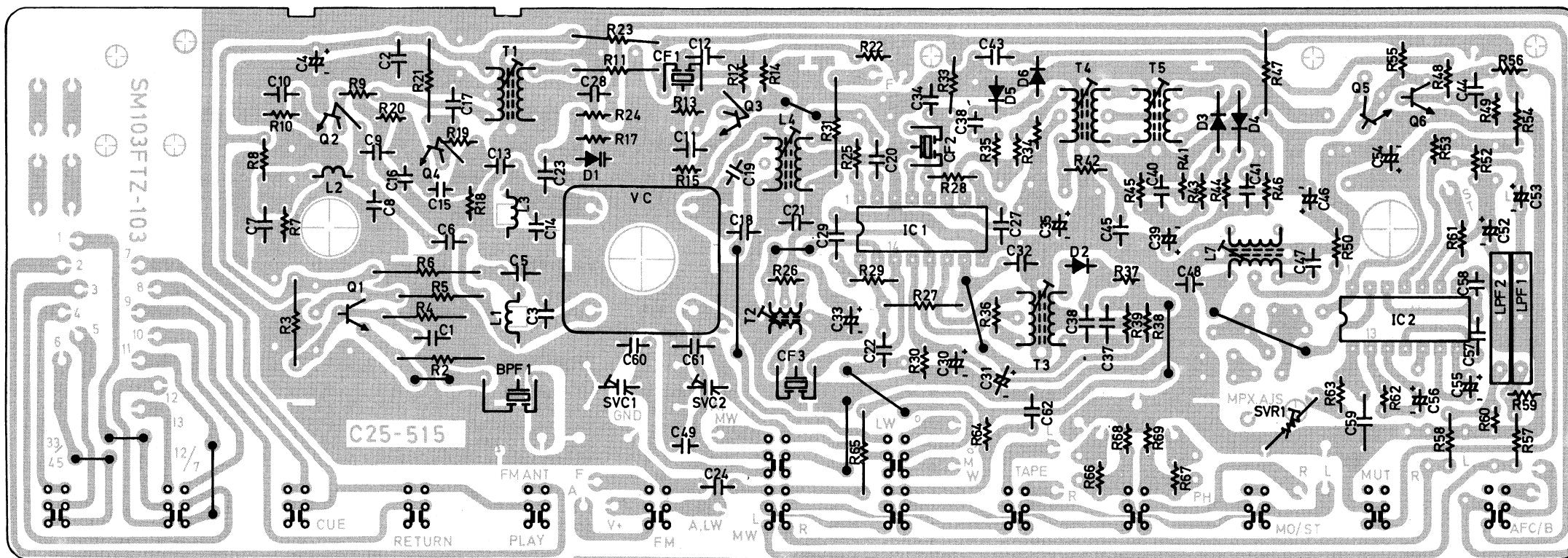
Bestell-Nr./Part No.	Bezeichnung	Description	Pos.-Nr./Ref. No.
IC's			
29 017 00-302	IC HA 12003	IC 2	
16 675 00-302	IC TDA 2030 SGS	IC 3	
16 675 00-302	IC TDA 2030 SGS	IC 4	
08 065 00-302	IC UPC 1018 C NEC	IC 1	
Transistoren			
03 395 00-301	Trans 2 SC 535-C	Q1	
29 018 00-301	Trans 2 SC 1417-H	Q2	
29 018 00-301	Trans 2 SC 1417-H	Q4	
03 392 00-301	Trans 2 SC 461 B	Q3	
29 019 00-301	Trans 2 SC 732 TM-BL	Q5	
29 019 00-301	Trans 2 SC 732 TM-BL	Q6	
29 019 00-301	Trans 2 SC 732 TM-BL	Q401	
29 019 00-301	Trans 2 SC 732 TM-BL	Q402	
29 019 00-301	Trans 2 SC 732 TM-BL	Q403	
29 019 00-301	Trans 2 SC 732 TM-BL	Q404	
29 020 00-301	Trans 2 SD 471-L	Q201	
29 021 00-301	Trans BC 547 C	Q301	
29 021 00-301	Trans BC 547 C	Q302	
29 021 00-301	Trans BC 547 C	Q405	
29 021 00-301	Trans BC 547 C	Q406	
29 021 00-301	Trans BC 547 C	Q407	
29 021 00-301	Trans BC 547 C	Q408	
29 021 00-301	Trans BC 547 C	Q409	
29 021 00-301	Trans BC 547 C	Q410	
29 021 00-301	Trans BC 547 C	Q411	
29 021 00-301	Trans BC 547 C	Q412	
29 022 00-301	Trans 2 SC 1317-S	Q413	
29 022 00-301	Trans 2 SC 1317-S	Q414	
Dioden			
29 023 00-304	Diode Kap. SD 117	D1	
03 400 00-3042	Diode 1 N 60	D2	
03 400 00-3042	Diode 1 N 60	D403-406	
29 024 00-3042	Diode 1 N 60 PRR	D3	
29 024 00-3042	Diode 1 N 60 PRR	D4	
29 025 00-3042	Diode 2 DA 90	D5	
11 241 00-3041	Diode 1 N 4148	D5	
11 241 00-3041	Diode 1 N 4148	D401	
11 241 00-3041	Diode 1 N 4148	D402	
11 239 00-3041	Diode 1 N 4002	D201 + 208	
11 239 00-3041	Diode 1 N 4002	D202	
11 239 00-3041	Diode 1 N 4002	D203	
11 239 00-3041	Diode 1 N 4002	D204	
11 239 00-3041	Diode 1 N 4002	D205	
11 239 00-3041	Diode 1 N 4002	D206	
11 239 00-3041	Diode 1 N 4002	D207	
11 239 00-3041	Diode 1 N 4002	D208	
29 026 00-3044	Z-Diode HZ 11 B 2	LD1	
29 009 00-3045	LED GL-9 NG 2 (grün)	LD2	
29 006 00-3045	LED GL-9 PR 2 (rot) Aufn.		
Spulen und Filter			
29 027 00-325	Antennenfilter	BPF 1	
29 028 00-3252	Filter ZF-FM 8 A 6972	T1	
29 029 00-3252	Filter ZF-AM A 6193	T2	
29 030 00-3252	Filter 2 A 5045	T3	
29 031 00-3252	Filter 7 A 6365	T4	
29 032 00-3252	Filter 56006/N 6	T5	
29 033 00-3252	Keramikfilter 10,7 MHz (FM)	CF 1/2	
24 996 00-3252	Keramikfilter 465 kHz	CF3	
29 034 00-325	Spule 6 A 8034	L4	
29 035 00-325	Spule MW	L5	
29 036 00-325	Spule LW	L6	
29 046 00-325	Spule	L7	
15 031 00-3252	Filter B 3 BN 4103	LPF 1	
15 031 00-3252	Filter B 3 BN 4103	LPF 2	
26 992 00-3431	Ferritantenne		
29 037 00-317	Drehko		
29 038 00-324	Trafo		
Buchsen			
26 487 00-3321	FM-Antennenbuchse	C 01-029	
29 039 00-332	Lautsprecherbuchse	C 01-20	
29 005 00-3324	Kopfhörerbuchse	C 14-SG 8044	
29 007 00-3326	Mikrofonbuchse	C 14-SJ 836	
Coils and filters			
FM Bandpass filter EXC-FF 881084			
I.F.T. FM 154 FC-8 A 6972 DY			
I.F.T. FMC-A 6193 EK			
Filter 2 A 5045			
Filter 7 A 6365			
Filter 56006/N 6			
Keramikfilter 10,7 MHz (FM)			
AM Ceramic filter 465 kHz			
Coil 6 A 8034			
Spule MW			
Spule LW			
Spule			
Filter B 3 BN 4103			
Filter B 3 BN 4103			
Bar antenna			
PVC			
Coil CLN-A 1477 GO			
Notch filter B 36 N 4103-32			
Notch filter B 36 N 4103-32			
Jacks			
FM antenna socket D 2-713 N-01			
Speaker socket D 2-714 N-00			
Head phone jack SG 8044			
Mic jack SJ 836-1-010			

Bestell-Nr./Part No.	Bezeichnung	Description	Pos.-Nr./Ref. No.
Schalter			
29 982 00-3273	Netzschalter		
29 040 00-3276	Tastensatz 12fach		C 22-131
29 041 00-3276	Tastenschalter 33/45		C 22-125
29 047 00-3276	Tastenschalter		C 22-127
29 048 00-3274	A/W-Schiebeschalter		C 22-132
Schieberegler			
29 042 00-322	Schieberegler 100 K x 2 (EQ)		C 40-013
29 043 00-322	Schieberegler BM 50 K (Vol.)		
Platinen			
26 989 00-500	HF-Platine		C 25-515
26 983 00-500	NF-Platine		C 25-517
26 980 00-500	Klangreglerplatine		C 25-516
26 788 00-500	Kopfhörerbuchsenplatine		C 25-479
26 789 00-500	Aufnahme-LED-Platine		C 25-474
26 790 00-500	Mikrofonbuchsenplatine rechts		C 25-473
26 791 00-500	Mikrofonbuchsenplatine links		C 25-491
26 988 00-500	Stereo-LED-Platine		C 25-475
26 993 00-500	A/W-Platine		C 25-507
26 999 00-500	Wiedergabeplatine		C 25-490
Lampen			
26 984 00-3291	Skalenlampe oben		C 05-195
29 008 00-3291	Skalenlampe unten		C 05-194
P.C.B.'s			
Tuner board			
Audio board			
Tone board			
Headphone board			
Rec. LED board			
Mic jack board (r)			
Mic jack board (l)			
Stereo LED board			
Record board			
Play cassette board			
Lamps			
Bulb (upper) 6 V/70 mA			
Bulb (lower) 6 V/70 mA			

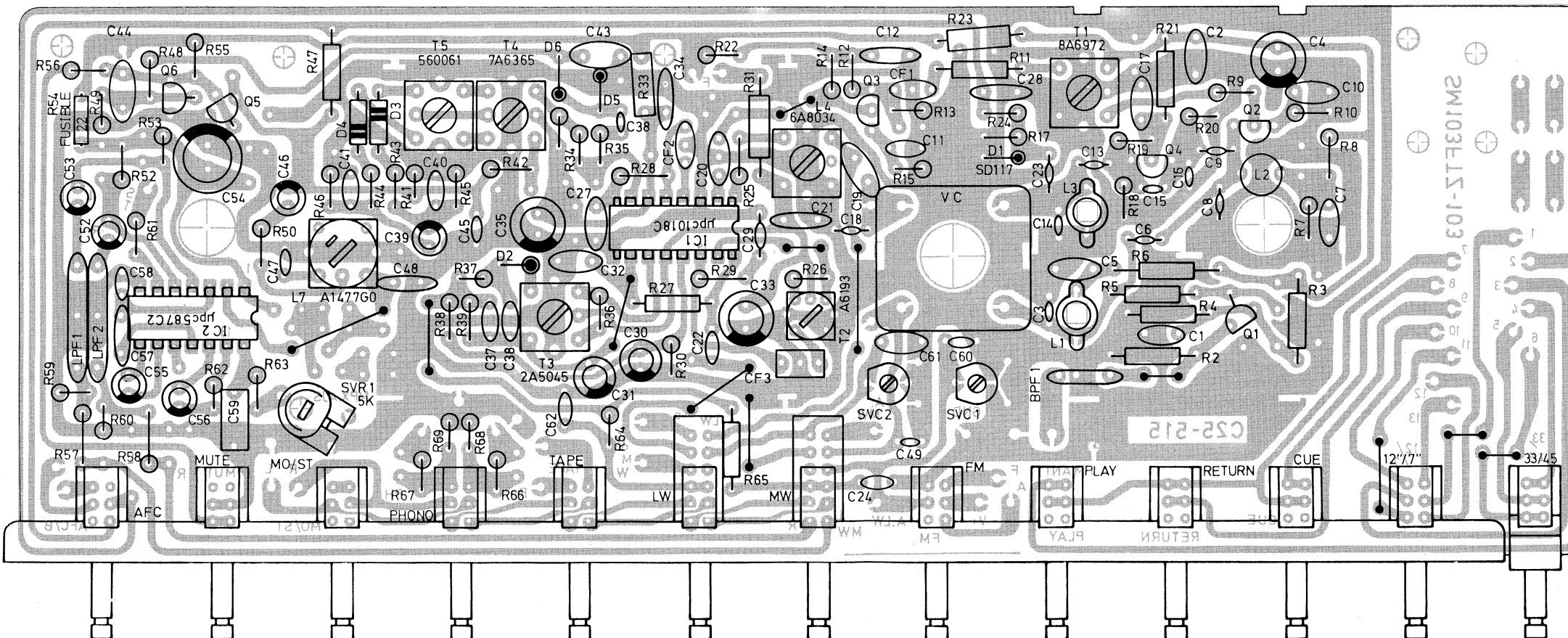
Rundfunk-Platinen

Receiver P.C.B.

Leiterbahnseile Wiring view

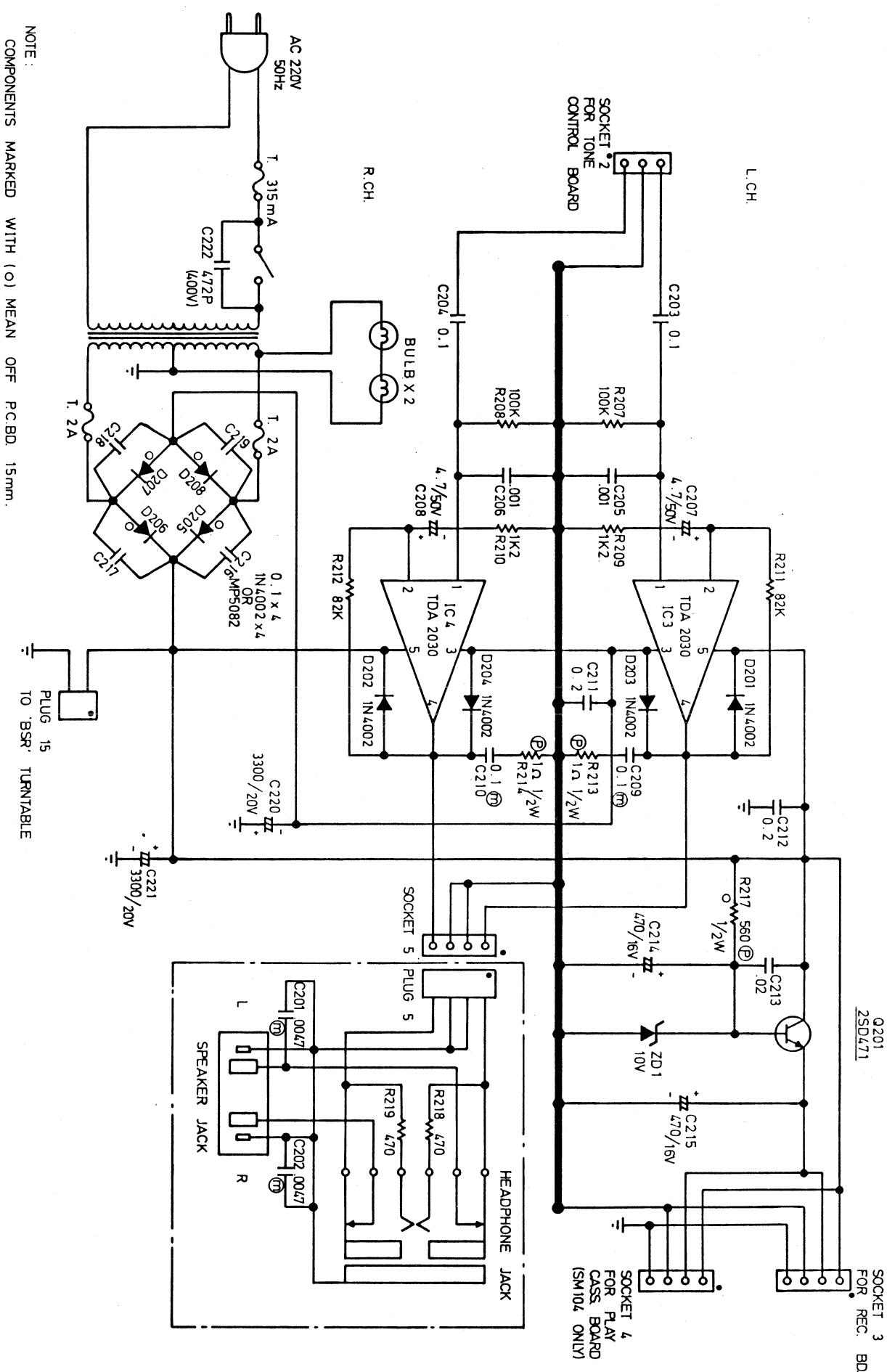


Bestückungsseite Component view



Schaltbild Audioplatine

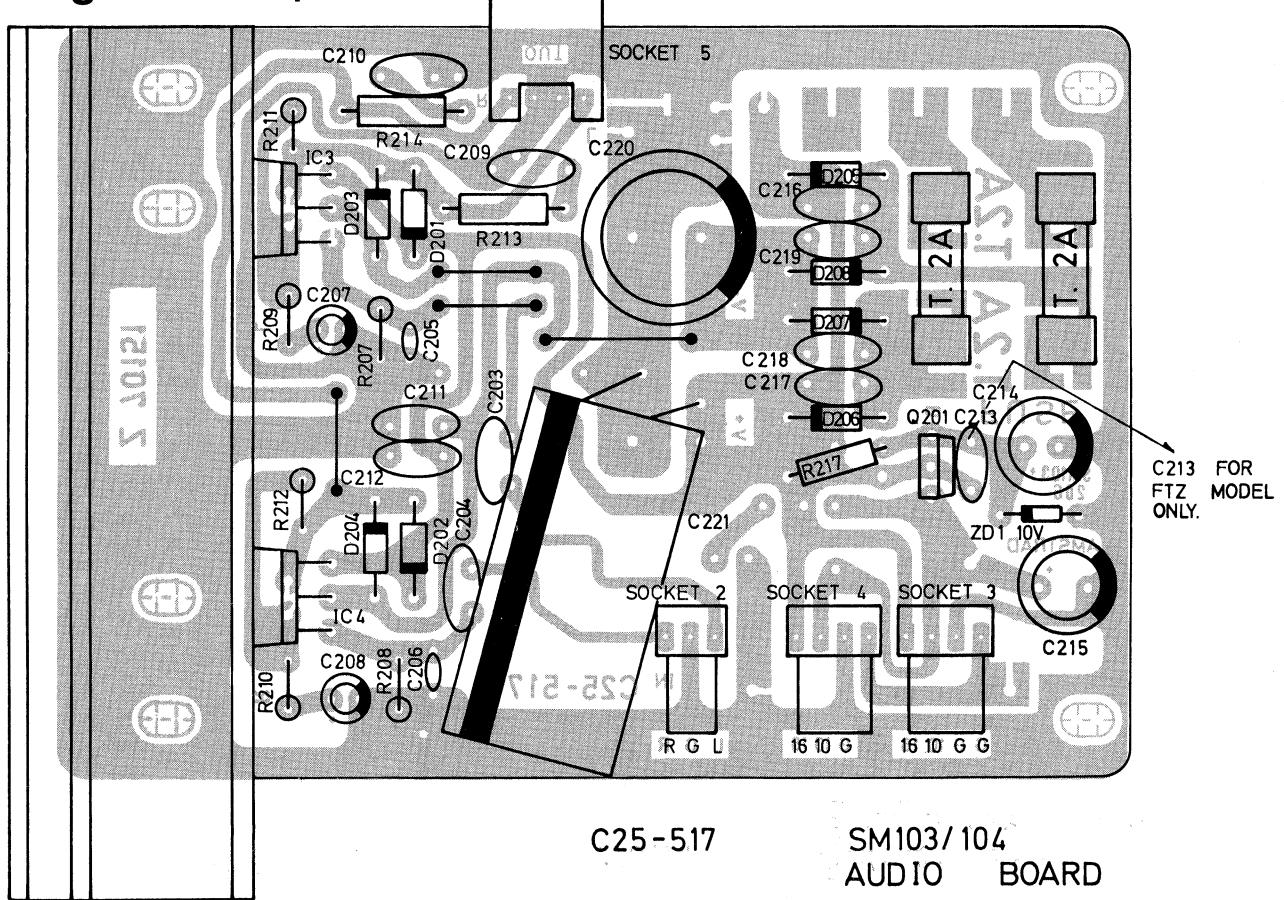
Circuit diagram audio P.C.B.



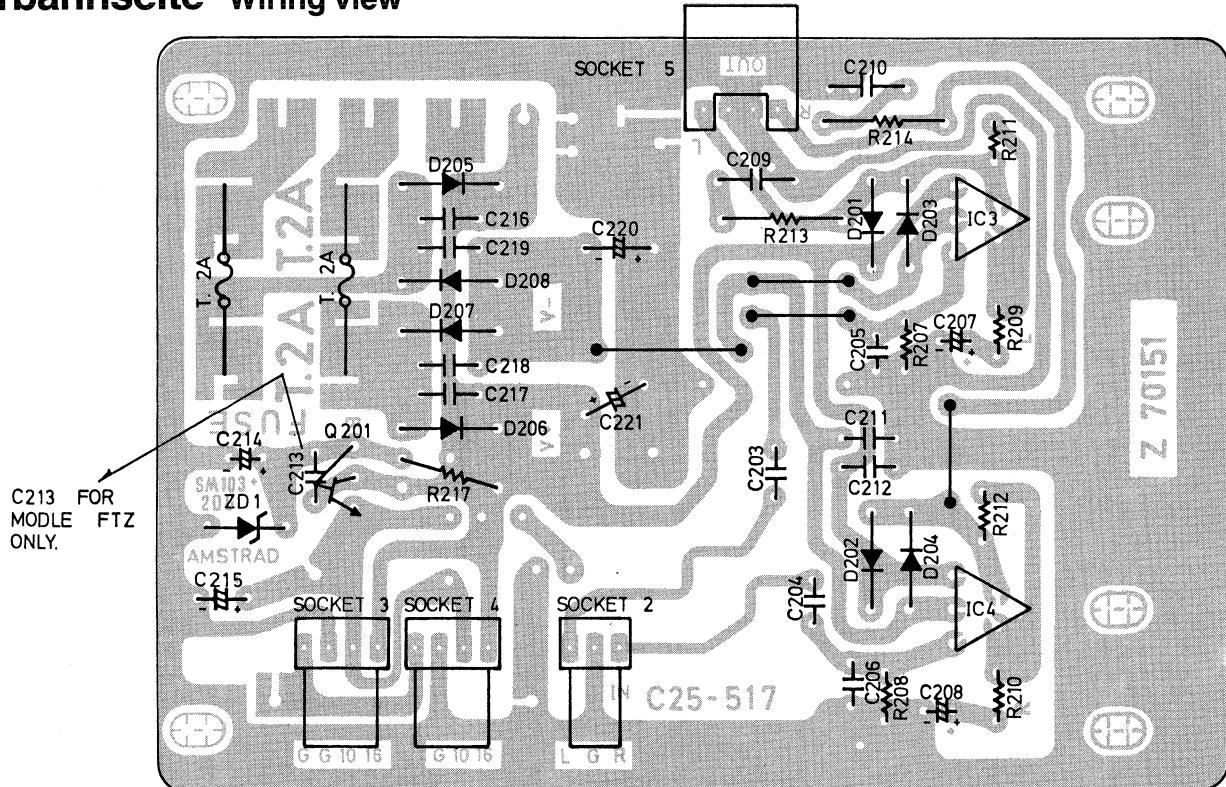
Audio-Platine

Audio P.C.B.

Bestückungsseite Component view



Leiterbahnseite Wiring view

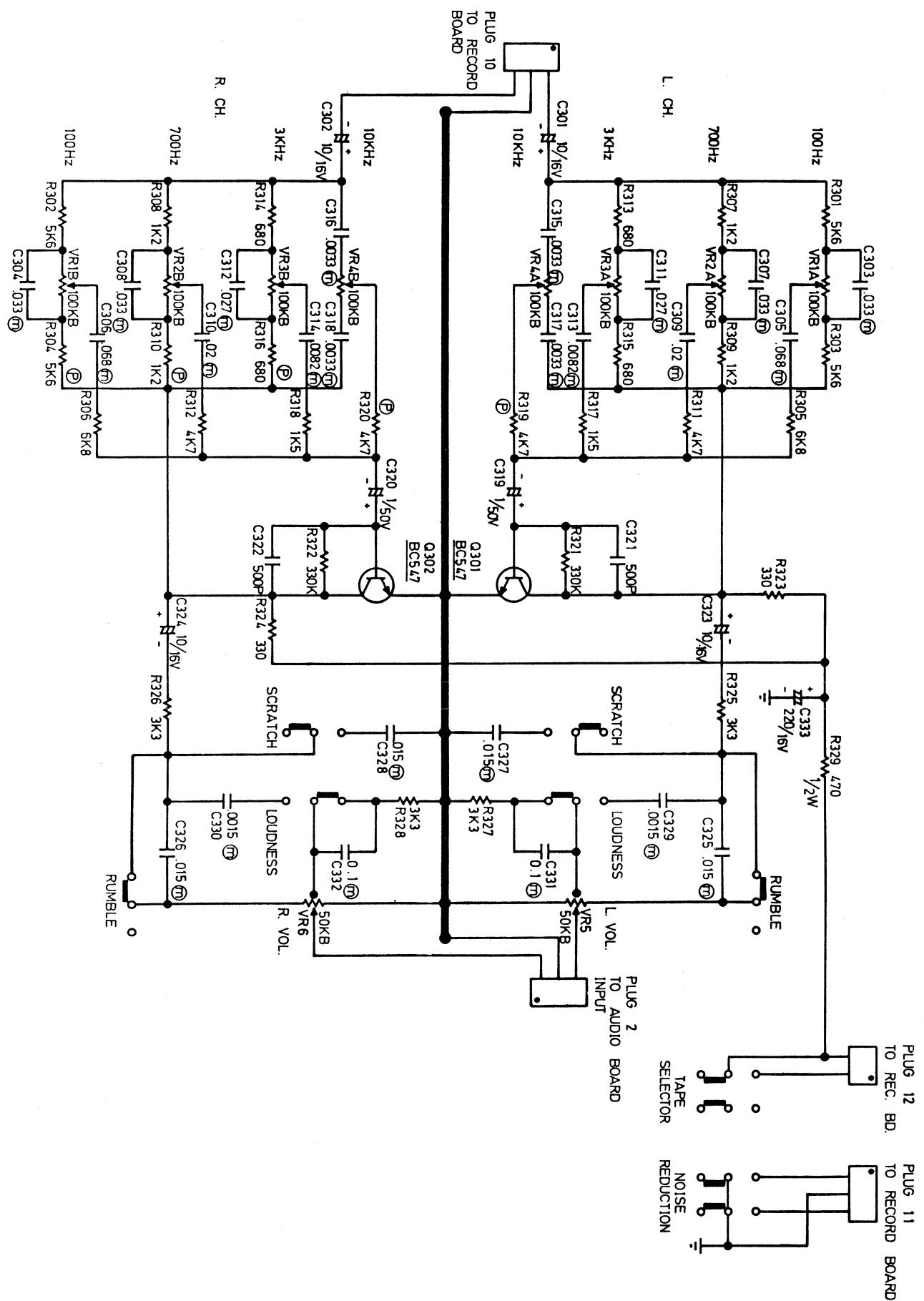


C25 - 517

SM 103 / 104
AUDIO BOARD

Schaltbild Klangreglerteil

Circuit diagram tone P.C.B.



Klanggreglerplatine

Tone control P.C.B.

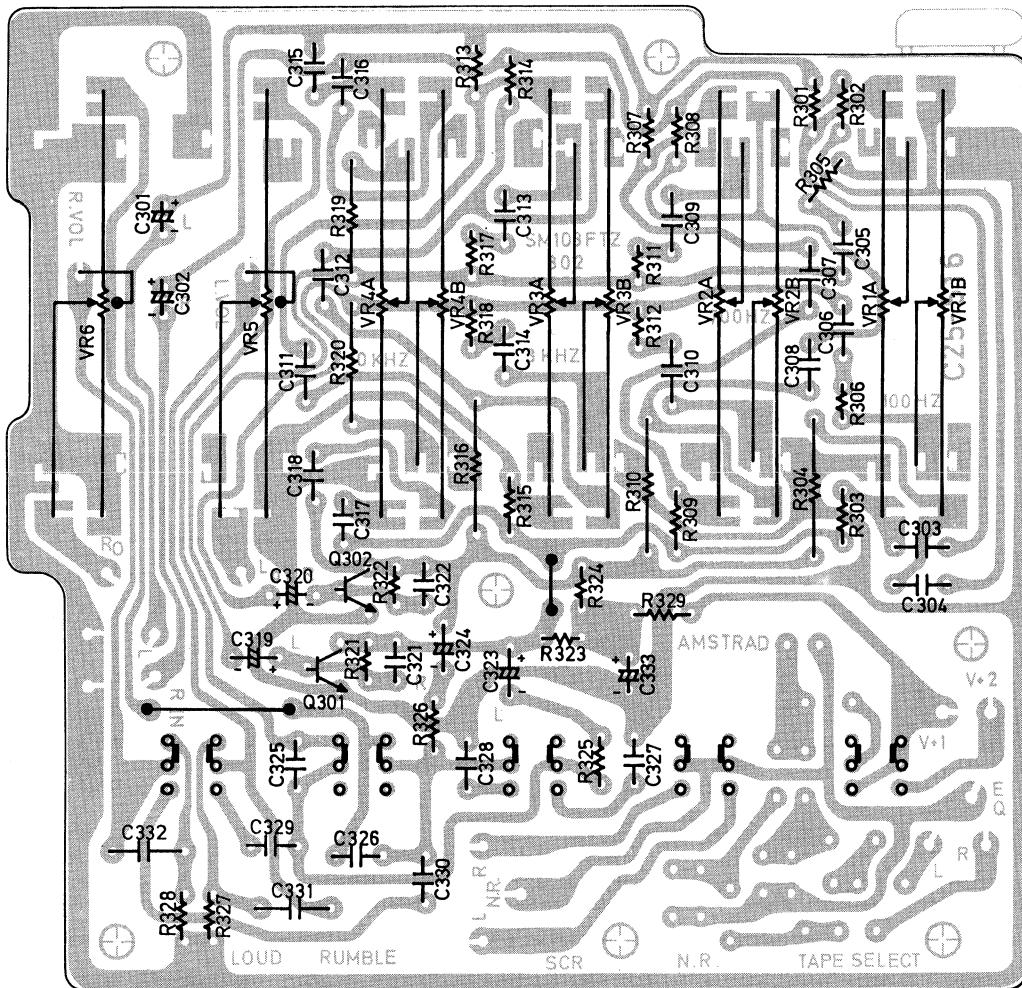
Leiterbahnseite

Wiring view

SCALE 2 : 1

TONE CONTROL BD.

C25 -516

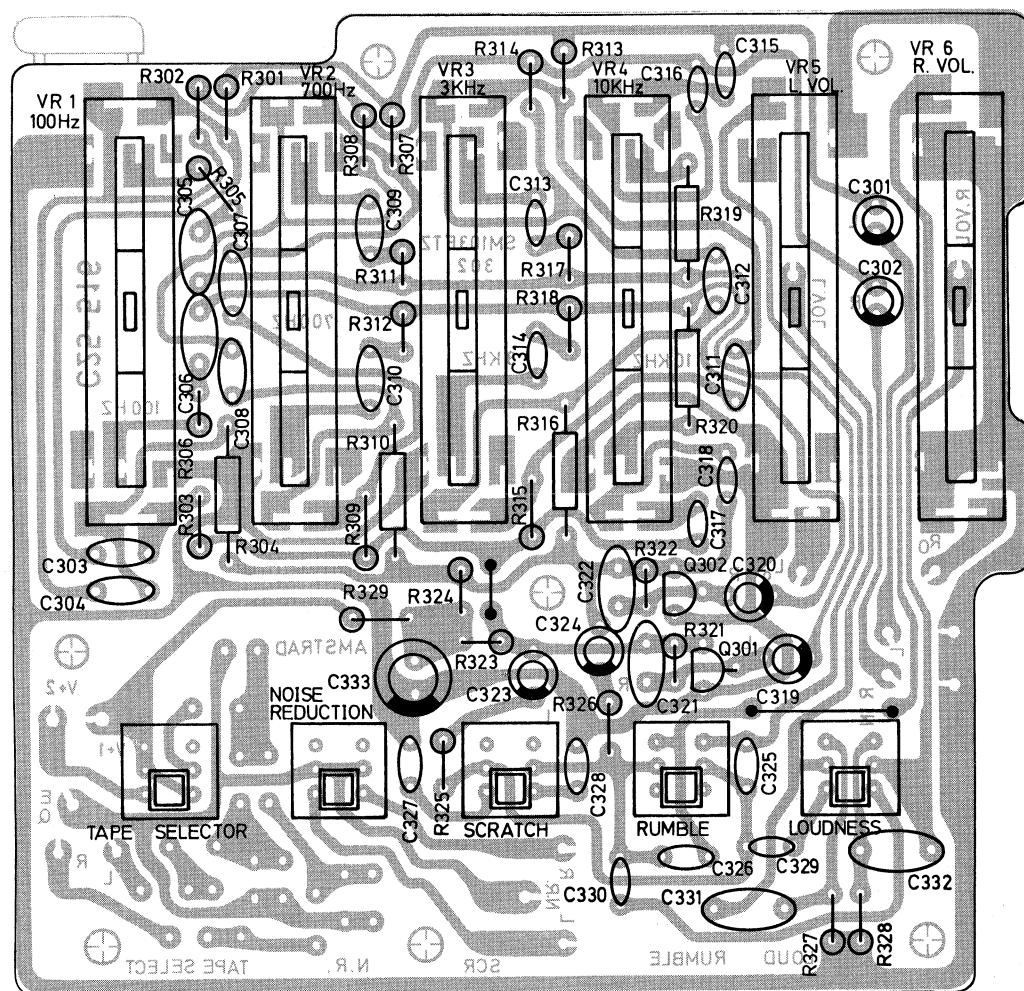


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Component view

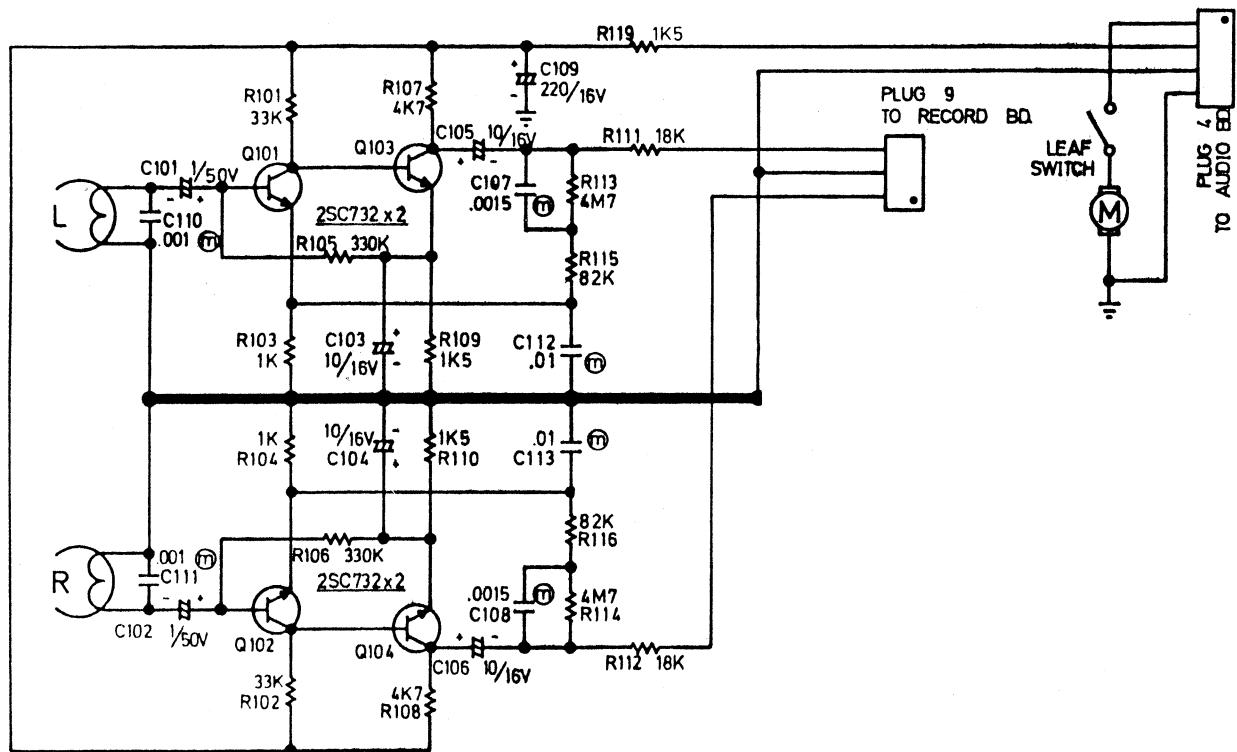
C25 - 516

SM 103 / 104 FTZ
TONE CONTROL BD.



Schaltbild Wiedergabe Cassettenteil

Circuit diagram play-cass.-deck



Wiedergabeplatine

Play P.C.B.

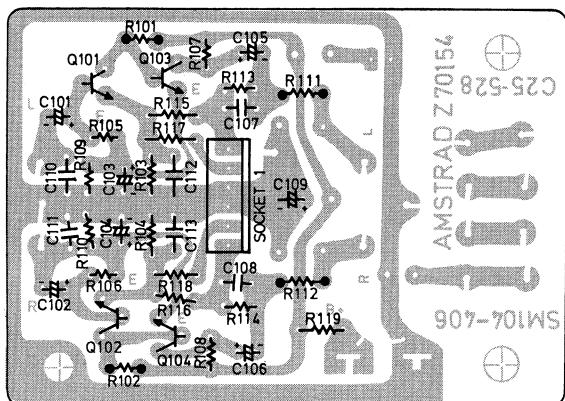
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Wiring view

WIRING VIEW
SCALE 2 : 1

C25-490

SM 104
PLAY CASS. BD.



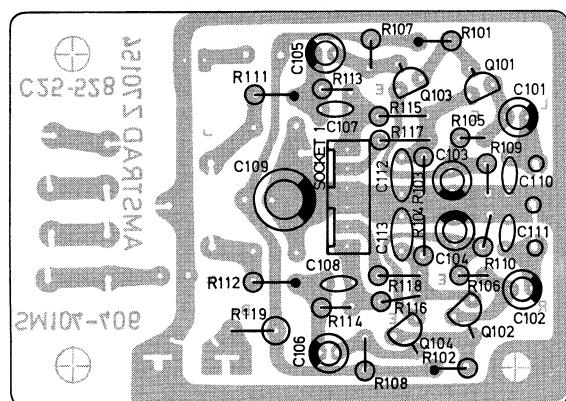
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Component view

COMPONENT VIEW
SCALE 2 : 1

C25-490

SM 104
PLAY CASS. BD.



A/W-Platine Rec./play P.C.B.

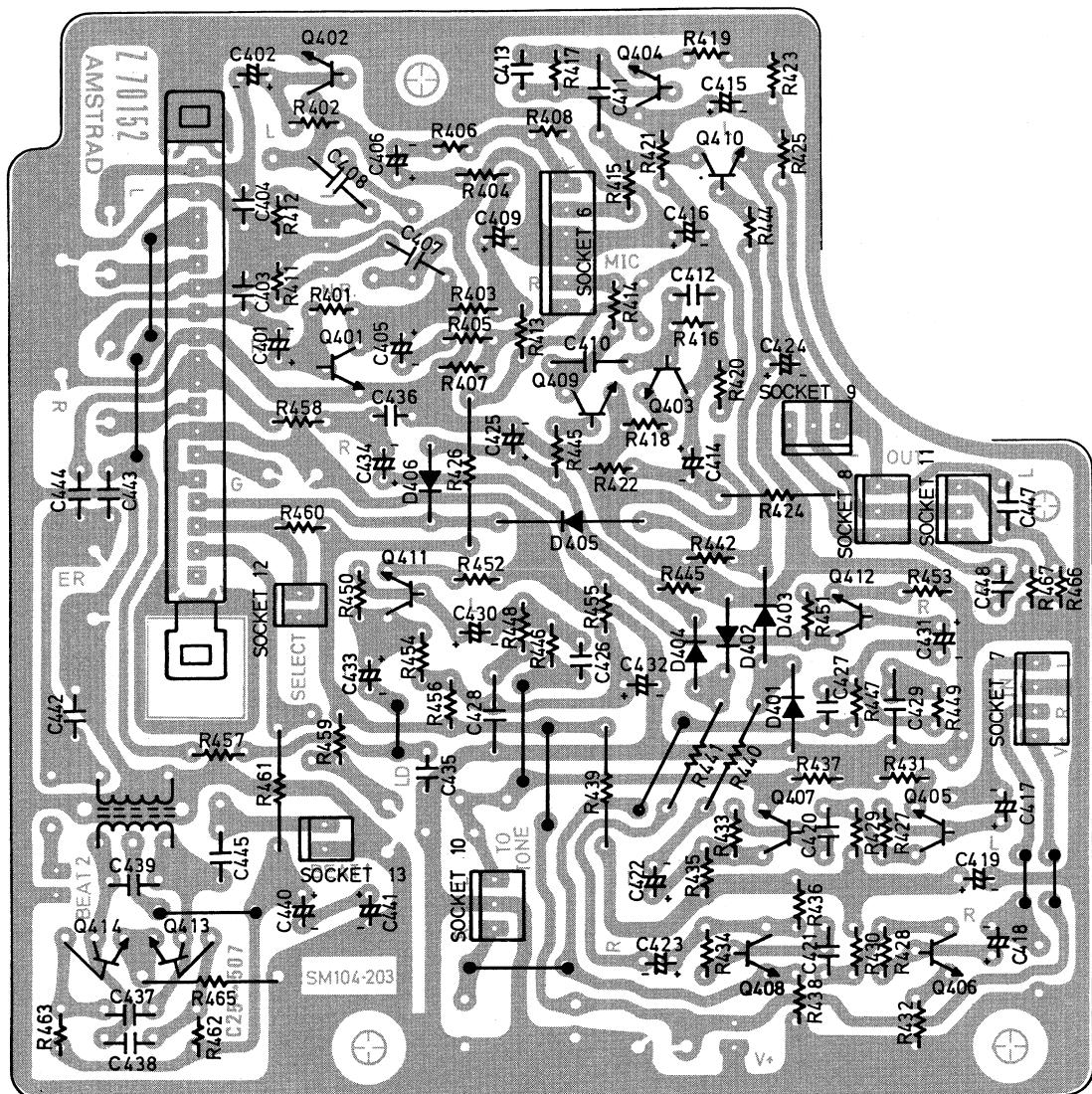
Leiterbahnseite

Wiring P.C.B.

SCALE 2 : 1

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SM 103 / 104
RECORD BOARD



Bestückungsseite

Component view

COMPONENT VIEW

SCALE 2 : 1

C25 - 507

SM 103 / 104
RECORD BOARD

